



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTR-22-L47-835-RA-TBOX.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN from BALLABS TEST NO. 19562.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 12-OCT-2016  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 1-22" LED ARRAY 2x2'RECESSED LUMINAIRE  
 [MORE] WHITE REFLECTOR w/CENTER FROSTED RIBBED ACRYLIC LENS  
 [MORE] EVERLINE #D10CC55UNVTZ-C @ 76 SETPOINT  
 [LUMCAT] PTR-22-L47-835-RA-xxx-xxx  
 [LAMPCAT] M700C840D72N2A  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_APPLICATION] Indoor, Architectural, Office, Direct  
 [\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4708
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	38.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.93 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4423	4588	4737
55	3740	4121	4397
65	2859	3576	3976
75	1987	3171	3920
85	1132	2587	3233

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	1799.228	1799.228	1799.228	1799.228	1799.228
<b>5</b>	1805.278	1794.389	1791.969	1785.919	1785.919
<b>10</b>	1781.079	1770.189	1768.979	1762.929	1761.719
<b>15</b>	1738.730	1726.630	1725.420	1723.000	1721.790
<b>20</b>	1678.231	1667.341	1666.131	1667.341	1667.341
<b>25</b>	1593.533	1582.643	1589.903	1594.743	1589.903
<b>30</b>	1489.476	1484.636	1491.896	1500.365	1494.315
<b>35</b>	1369.688	1368.478	1384.208	1390.258	1396.308
<b>40</b>	1231.752	1231.752	1258.371	1269.261	1278.940
<b>45</b>	1074.455	1074.455	1114.384	1139.794	1150.683
<b>50</b>	908.689	909.899	963.138	997.017	1012.747
<b>55</b>	736.873	750.183	811.891	848.190	866.340
<b>60</b>	568.687	595.306	657.015	696.944	716.303
<b>65</b>	415.020	450.110	519.078	562.637	577.157
<b>70</b>	279.504	323.063	392.031	436.800	453.740
<b>75</b>	176.656	219.005	281.923	326.692	348.472
<b>80</b>	95.588	131.887	187.546	219.005	240.784
<b>85</b>	33.879	59.289	77.438	77.438	96.798
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	657.37	N.A.	14.00
0-30	1389.12	N.A.	29.50
0-40	2251.94	N.A.	47.80
0-60	3825.72	N.A.	81.30
0-80	4621.64	N.A.	98.20
0-90	4707.76	N.A.	100.00
10-90	4537.47	N.A.	96.40
20-40	1594.57	N.A.	33.90
20-50	2450.15	N.A.	52.00
40-70	2079.04	N.A.	44.20
60-80	795.92	N.A.	16.90
70-80	290.66	N.A.	6.20
80-90	86.12	N.A.	1.80
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4707.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	170.30
10-20	487.08
20-30	731.74
30-40	862.83
40-50	855.58
50-60	718.20
60-70	505.26
70-80	290.66
80-90	86.12
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

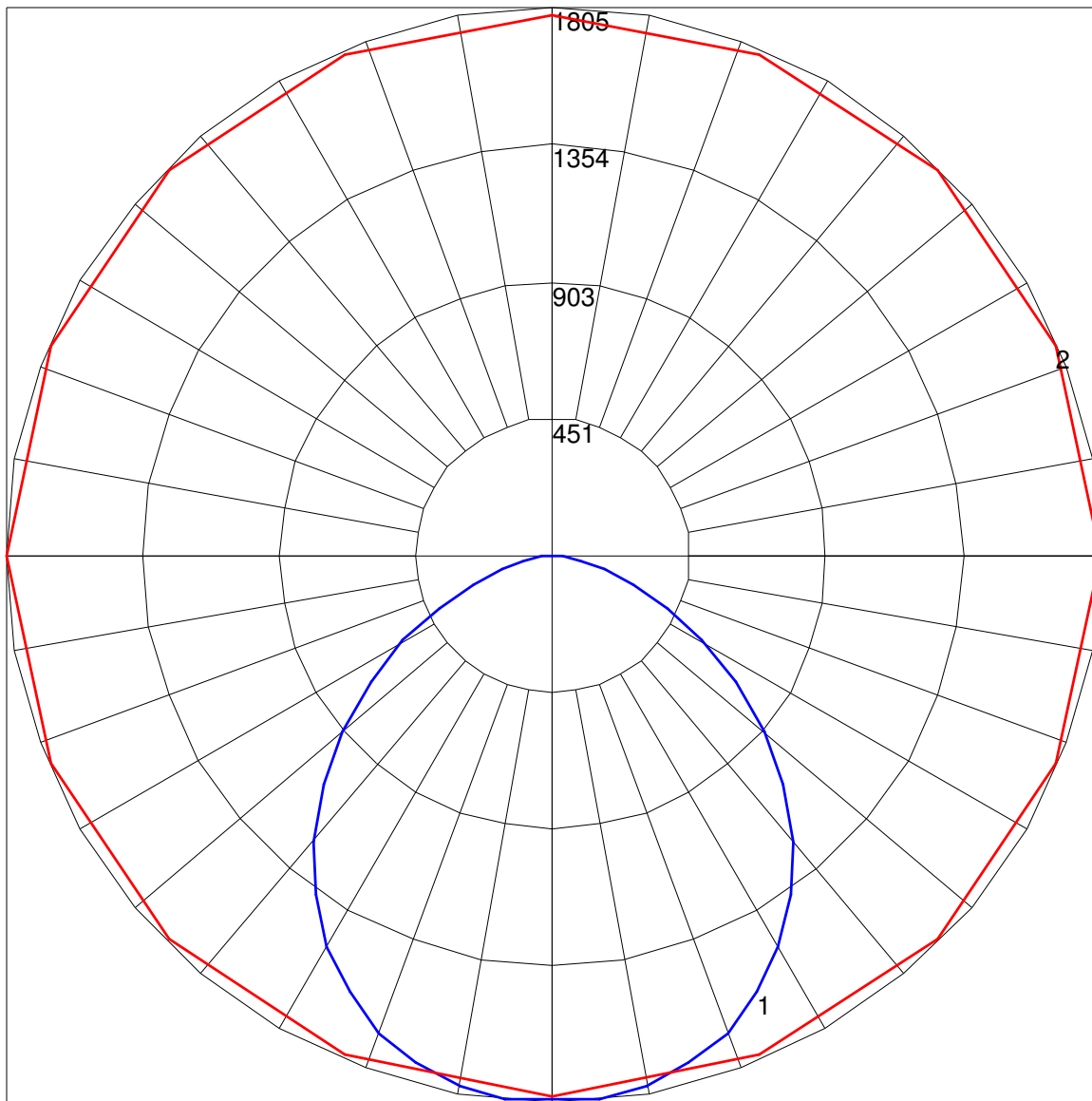
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	100	91	85	79	97	90	83	78	86	81	76	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

POLAR GRAPH



Maximum Candela = 1805.278 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)